CLAIMS

- 1. A device, comprising:
- a flexible substrate;
- a plurality of contact pads on a first surface of the substrate; and
- a strain relief structure, positioned between two of the plurality of contact pads.
- 2. The device of claim 1 wherein the strain relief structure is an aperture, benetrating through the flexible substrate from the first surface to a second surface.
- 3. The device of claim 2 wherein the aperture has, in plan view, a rectangular shape.
- 4. The device of claim 1, wherein the strain relief structure is a thinned region of the flexible substrate.
- 5. The device of claim 4, wherein the thinned region has, in plan view, a rectangular shape.
- 6. The device of claim 1, wherein the strain relief structure is centered on a line between centers of two of the plarality of contact pads.
- 7. The device of claim 1, further comprising a plurality of electrical traces, each of the plurality of electrical traces being in electrical contact with one of the plurality of contact pads.
- 8. The device of claim 7, wherein the strain relief structure is positioned such that it interrupts one of the plurality of electrical traces.

- 9. An electrical connector, comprising:
- a flexible substrate;
- a plurality of contact pads arranged in a regular configuration on a first surface of the substrate;
- a plurality of electrical traces on the flexible substrate, each of the plurality of electrical traces being in electrical contact with a respective one of the plurality of contact pads; and
- a plurality of apertures penetrating through the flexible substrate, the plurality of apertures arranged in a regular configuration and intercalated into the plurality of contact pads.
 - 10. A method, comprising:

forming, on a first surface of a flexible substrate, a plurality of contact pads; forming, on the flexible substrate, a plurality of electrical traces, each of the plurality of electrical traces being in contact with one of the plurality of contact pads; and forming, between two of the plurality of contact pads, a strain relief structure.

- 11. The method of claim 10, further including breaking one of the electrical traces with the forming the strain relief structure step.
- 12. The method of claim 10 wherein the strain relief structure is an aperture penetrating the flexible substrate from the first surface to a second surface.
- 13. The method of claim 10, wherein each of the plurality of electrical traces is formed on either the first surface of the flexible substrate, a second surface of the substrate or an inner layer of the substrate.

